

WEST



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L15: Entry 1 of 2

File: JPAB

Dec 26, 1987

PUB-NO: JP362299388A
DOCUMENT-IDENTIFIER: JP 62299388 A
TITLE: RECORDING MATERIAL

PUBN-DATE: December 26, 1987

INVENTOR-INFORMATION:

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APPL-NO: JP61141882

APPL-DATE: June 18, 1986

US-CL-CURRENT: 503/225

INT-CL (IPC): B41M 5/18; B41M 5/12

ABSTRACT:

PURPOSE: To ensure a favorable developed color density and make it possible to obtain a stable developed color image, by using a specified compound as an electron-acceptive compound in a recording material using an electron-donative colorless dye and the electron-acceptive compound.

CONSTITUTION: A compound of the formula, wherein Ar represents an aryl substd. by an alkoxyl, and Y represents hydrogen, a halogen, alkyl or alkoxyl, is used as an electron-acceptive compound in a recording material using an electron-donative colorless dye and the electron-acceptive compound. The electron-acceptive compound may be, for example, β -p-methoxyphenyldiethyl 4-hydroxybenzoate or β -p-ethoxyphenoxyethyl 4-hydroxybenzoate. When the electron-acceptive compound is used for a thermal recording material, it preferably has a melting point of not lower than 60°C. The electron-acceptive compound, when being combined with the electron-donative colorless dye, gives a developed color image with high density. Further, the developed color image thus formed has an extremely high stability.

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L15: Entry 2 of 2

File: DWPI

Dec 26, 1987

DERWENT-ACC-NO: 1988-040088

DERWENT-WEEK: 198806

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TITLE: Recording material using electron donating leuco colourless dye - includes 4-hydroxy benzoic acid aryloxy ethyl ester as electron accepting cpd.

PRIORITY-DATA: 1986JP-0141882 (June 18, 1986)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|----------------------|-------------------|----------|-------|----------|
| <u>JP 62299388 A</u> | December 26, 1987 | | 006 | |

INT-CL (IPC): B41M 5/18

ABSTRACTED-PUB-NO: JP62299388A

BASIC-ABSTRACT:

Recording material contains (a) an electron donative colourless dye and (b) an electron acceptive cpd. of formula (I). In (I), Ar = alkoxy-substd. aryl; Y = H, halogen, alkyl or alkoxy. Dye (a) is, e.g. triarylmethane series, diphenylmethane series, xanthene series, thiazine series or spiropyran series cpd. The heat-fusible cpd. is e.g., stearic acid amide, p-t-butylphenol phenoxy acetate, diphenyl phthalate or benzyloxynaphthalene; esp. pref. an ether cpd. which has at least two aromatic rings and have m.pt., 80-150 deg.C. The binder is, e.g. styrene-butadiene copolymer, alkyd resin, acrylamide copolymer, polyvinyl alcohol or gum arabic. The pigment is, e.g. kaolin, talc, titanium oxide or urea-foramlin. The dispersing medium is water. The recording material opt. contains paraffin wax emulsion, sensitivity-improving agent, metal soap, antioxidant, UV- absorber, image-storing properties-improving agent, etc. The image-storing properties-improving agent is pref. phenol or its deriv. in which at least one of C at 2- or 6-position is substd. by tert-butyl gp.

USE/ADVANTAGE - The recording material provides a stable colour image of sufficient colour density. A heat-sensitive recording material is prepd. by coating soln. on a support. The coating soln. consists of, e.g. 1-2 pts. wt. (a), 1-6 pts. wt. (b), 0.30 pts. wt. heat-fusible cpd., 0-15 pts. wt. pigments, 1-15 pts. wt. binder and 20-300 pts. wt. dispersing medium or solvent. /0